

**Dr Alastair M. M. Baylis**  
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#### QUALIFICATIONS

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- **Postgraduate Certificate** (2012-2014). Veterinary Conservation Medicine, Murdoch University, Australia.
  - **PhD** (2004 – 2008). University of Adelaide, Adelaide South Australia. Dissertation: Seasonal and colony differences in the foraging ecology of New Zealand fur seals.
  - **Hons** (2003). Honours degree (cum laude 2004) LaTrobe University, Melbourne, Victoria. Thesis topic: ‘*Ontogeny of diving in New Zealand fur seal pups*’.
  - **B.Sc.** (1999-2002). Zoology major. University of Tasmania, Hobart, Tasmania.
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#### PROFESSIONAL EXPERIENCE

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I am a conservation biologist with a broad interest in the ecology and conservation biology of marine predators. I have been involved in conservation research projects that have ranged from the sub-Antarctic Macquarie Island (‘Conservation of fur seals in the Antarctic marine ecosystem’) to Alaska [Harbour seals (Tugidak Island), Steller sea lions (SE Alaska) and Northern fur seals (Pribilof Islands)]. My PhD (2004-2008) identified critical foraging habitats of New Zealand fur seals. My post-PhD employment experience between 2008 and 2011 was diverse, but was principally management rather than research focused. Since 2012, I have focused on pursuing my research aspirations. My current, ongoing research is in the South Atlantic, where I have developed several key research projects in collaboration with colleagues from around the world (USA, Canada, UK, Germany, South Africa and Australia). The main thrust of my research effort in recent years has been to develop a unique and multidisciplinary project on little studied pinniped populations breeding at the Falkland Islands. This research includes understanding the processes governing past changes in population abundance, and the ecological, genetic and conservation consequences of historical population crashes. To achieve my research objectives, I combine healthy doses of field and laboratory work, with time spent exploring archives.

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#### PEER REVIEWED PUBLICATIONS

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30. **Baylis AMM**, et al. (2016). Contrasting patterns of sexual segregation in a highly dimorphic marine predator. *Marine Ecology Progress Series* doi: 10.3354/meps11759
29. **Baylis AMM**, et al. (2016). Pup vibrissae stable isotopes reveal geographic differences in adult female southern sea lion habitat use during gestation. *PlosOne* 11(6): e0157394. doi:10.1371/journal.pone.0157394
28. Huckstadt et al. (2016) Regional variability in diving physiology and behavior in a widely distributed air-breathing marine predator, the South American sea lion *Otaria byronia*. *Journal of Experimental Biology* doi: 10.1242/jeb.138677
27. Hoffman et al. (2016) Genetic structure and historical demography of the South American sea lion (*Otaria flavescens*) provide insights into the catastrophic decline of a marine mammal population. *Royal Society Open Science*

26. Volpov et al. (2016). Dive characteristics can predict foraging success in Australian fur seals (*Arctocephalus pusillus doriferus*) as validated by animal-borne video. *Biology Open* doi: 10.1242/bio.016659
25. **Baylis AMM**, Orben RA, Arnould JPY, Christiansen F, Hays GC, Staniland IJ (2015). Disentangling the cause of a catastrophic population decline in a large marine mammal. *Ecology* 96: 2834-2847.
24. **Baylis AMM**, Orben RA, Peters K, Knox T, Arnould J, Costa DP, Staniland IJ (2015). Diving deeper into individual foraging specializations of a large marine predator, southern sea lions. *Oecologia* 179: 1053-1065.
23. Kernaleguen, L *et al.* (2015). Sexual niche segregation in Australian fur seals. *Plos One* doi: 10.1371/journal.pone.0133018
22. Kernaleguen, L *et al.* (2015). From video recordings to whisker stable isotopes: a critical evaluation of time-scale in assessing individual foraging specialisation in Australian fur seals. *Oecologia* DOI: 10.1007/s00442-015-3407-2
21. Handley, J, **Baylis AMM**, Brickle P, Pistorius P. (2015). Temporal variation in the diet of Gentoo penguins at the Falkland Islands. *Polar Biology* doi:10.1007/s00300-015-1781-1
20. **Baylis A.M.M**, Orben R.A., Pistorius, P., Brickle, P., Staniland I., Ratcliffe, N. (2014). Winter foraging site fidelity of king penguins breeding at the Falkland Islands. *Marine Biology* 162: 99-110.
19. Bolten M., Stanbury A, **Baylis A.M.M.**, Cuthbert R. (2014). Impact of introduced House mice (*Mus musculus*) on burrowing seabirds on Steeple Jason and Grand Jason Islands, Falklands, South Atlantic. *Polar Biology* 37: 1659-1668.
18. **Baylis A.M.M.**, Page B., Staniland I., Arnould J.P.Y., McKenzie J. (2014). Taking the sting out of darting: Risks, restraint drugs and procedures for the chemical restraint of Southern Hemisphere otariids. *Marine Mammal Science* 31: 322-344.
17. Ratcliffe, N., Crofts, S., Brown, R., **Baylis, A. M. M.**, Adlard, S., Horswill, C., Venables, H., Taylor, P., Trathan, P. N., Staniland, I. J. (2014). Love thy neighbour or opposites attract? Patterns of spatial segregation and association among crested penguin populations during winter. *Journal of Biogeography* 41: 1183 – 1192.
16. **Baylis, A.M.M.**, Arnould, J. P. Y., Staniland, I. (2014). Diet of South American fur seals at the Falkland Islands. *Marine Mammal Science* 30: 1210 - 1219.
15. **Baylis, A.M.M.**, Wolfaardt, A. C., Crofts, S., Pistorius, P. Ratcliffe, N. (2013). Increasing trend in the number of Southern Rockhopper penguins breeding at the Falkland Islands. *Polar Biology* 36: 1007 – 1018.
14. Goldsworthy, S.D. *et al.* (2013). Trophodynamics of the eastern Great Australian Bight ecosystem: ecological change associated with the growth of Australia's largest fishery. *Ecological Modelling* 255: 38 – 57.
13. **Baylis, A.M.M.**, Crofts, S., Wolfaardt, A.C. (2013). The current status of Gentoo penguins breeding at the Falkland Islands. *Marine Ornithology* 41: 1 – 5
12. Wolfaardt, A. C., Crofts, S., and **Baylis, A.M.M.** (2012). Effects of a storm on seabirds breeding at the Falkland Islands. *Marine Ornithology* 40: 129 – 133.

11. Pistorius, P., **Baylis, A.M.M.**, Crofts, S., Putz, K. (2012). Population development and historical occurrence of king penguins at the Falkland Islands. *Antarctic Science* 24: 435 – 440.
10. **Baylis, A.M.M.**, Zuur A.F., Brikle P., Pistorius P.A. (2012). Climate as a driver of variability in the number of breeding Gentoo Penguins (*Pygoscelis papua*) at the Falkland Islands. *Ibis* 154: 30 – 41.
9. **Baylis, A.M.M.**, Page, B, McKenzie, J, Goldsworthy, S (2012). Individual foraging site fidelity in lactating New Zealand fur seals. *Marine Mammal Science* 28: 276 - 294.
8. Pistorius, P, and **Baylis, A.M.M** (2010) A bald encounter: hairless southern sea lion at the Falkland Islands. *Polar Biology* DOI: 10.1007/s00300-010-0860-6
7. Goldsworthy, S.D, McKenzie, J., Page, B.C., Lancaster, M.L., Shaughnessy, P.D., Wynen, L.P., Robinson, S.A., Peters, K.J., **Baylis, A.M.M.**, McIntosh, R.R. (2009). Fur seals at Macquarie Island: post-sealing colonisation, trends in abundance and hybridisation of three species *Polar Biology* DOI 10.1007/s00300-009-0645-y
6. **Baylis, A.M.M.**, and Nichols, P.D. (2009). Milk fatty acids predict the foraging location of a wide-ranging central place forager, the New Zealand fur seal: continental shelf vs. oceanic waters. *Marine Ecology Progress Series* 380: 271 – 286.
5. **Baylis, A.M.M.**, Hamer, D., Nichols, P.D. (2009). Assessing the use of milk fatty acids to infer the diet of the Australian sea lion. *Wildlife Research* 36: 169 – 176.
4. **Baylis, A.M.M.**, Page, B., Goldsworthy, S. (2008). Effect of seasonal changes in upwelling activity on the foraging locations of a wide-ranging central place forager, the New Zealand fur seal. *Canadian Journal of Zoology* 86: 774 – 779.
3. **Baylis, A.M.M.**, Page, B., Goldsworthy, S. (2008). Colony-specific foraging areas of lactating New Zealand fur seals. *Marine Ecology Progress Series* 361: 279 – 290.
2. **Baylis, A.M.M.**, Page, B, McKenzie, J, McIntosh, R, Goldsworthy, S (2005). The ontogeny of diving in New Zealand fur seal pups. *Canadian Journal of Zoology* 83: 1149 – 1161.
1. Page, B, McKenzie, J, McIntosh, R, **Baylis, A.**, Morrissey, A, Calvert, N, Hasse, T, Berris, M, Dowie, D, Shaughnessy, P and Goldsworthy, S. (2004). A summary of Australian sea lion and New Zealand fur seal entanglements in marine debris pre- and post-implementation of Australian Government fishery bycatch policies. *Marine Pollution Bulletin* 49: 33 – 42.

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#### RECENT RESEARCH GRANTS

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**2010:** Darwin Initiative Challenge Fund, Project AWARE, Joint Nature Conservation Council (US\$53,700).

**2011:** World Wildlife Fund (US\$34,000).

**2012:** Shackleton Scholarship Fund, Joint Nature Conservation Council (US\$9,400).

**2013:** Sea World and Busch Gardens, Rufford Small Grants, Falkland Islands Government ESB, Shackleton Scholarship Fund Centenary Award (US\$29,000).

**2014/15:** Falkland Islands Government (via SAERI) (US\$90,000).

**2015:** National Geographic Society (US\$10,000). Winnifred Violet Scott (AU\$33,600).

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#### REVIEWER FOR

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Australian Journal of Zoology, Aquatic Biology, Canadian Journal of Zoology, Ecography, Journal of Biogeography, Journal of Experimental Marine Biology, Marine Ecology Progress Series, Marine Mammal Science, Marine Ornithology, Methods in Ecology and Evolution, New Zealand Journal of Marine and Freshwater Research, Polar Biology.

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**ON THE WEB**

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Twitter: [https://twitter.com/al\\_baylis](https://twitter.com/al_baylis)

WordPress: <http://albaylis.wordpress.com/>

ResearchGate: [https://www.researchgate.net/profile/Alastair\\_Baylis](https://www.researchgate.net/profile/Alastair_Baylis)

GoogleScholar: <http://scholar.google.co.uk/citations?user=LwB8pH8AAAAJ&hl=en>